

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/866,597	RAJAN, JEBU JACOB	
	<b>Examiner</b>	<b>Art Unit</b>	
	Wilbert L. Starks, Jr.	2121	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 26 August 2004.
2. ☒ The allowed claim(s) is/are 1-74, and 77-84.
3. ☒ The drawings filed on 30 May 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

## **DETAILED ACTION**

### ***Reasons For Allowance***

1. Claims 1-74, and 77-84 are allowed.
2. The following is an Examiner's statement of reasons for allowance:
3. The cited prior art taken alone or in combination fails to teach the claimed invention of an acoustic signal analyzer, as claimed by Applicant. Specifically, independent claims 1, 37-38, 74, 77, 79, and 80-83 disclose an acoustic processing system that:
  - a. receives a set of acoustic signals;
  - b. stores a function that gives a probability density function (PDF) for a particular set of signal values;
  - c. applies the set of signal values to the stored function to derive samples of parameter values from the PDF;
  - d. processes the PDF to derive samples of parameter values from the PDF;  
and
  - e. analyses the derived samples to determine parameter values that are representative of the acoustic signals.

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4. The closest prior art of Malinverno et al.<sup>1</sup> teaches an acoustic processing system that:

- a. receives a set of acoustic signals;
- b. stores a function that gives a probability density function (PDF) for a particular set of signal values;
- c. applies the set of signal values to the stored function to derive samples of parameter values from the PDF; and
- d. processes the PDF to derive samples of parameter values from the PDF.

but fails to teach or suggest:

- e. analyses the derived samples to determine parameter values that are representative of the acoustic signals.

To the extent that this feature is not present in the prior art cited by Examiner, the present case is held allowable over the art of record.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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<sup>1</sup> Malinverno et al. (U.S. Patent Number 6,549,854 B1; dated 04/15/2003; class 702; subclass 016), titled:

**Conclusion**

6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Wilbert L. Starks, Jr. whose telephone number is (703) 305-0027.

Alternatively, inquiries may be directed to the following:

<b>S. P. E. Anthony Knight</b>	<b>(703) 308-3179</b>
<b>After-final (FAX)</b>	<b>(703) 746-7238</b>
<b>Official (FAX)</b>	<b>(703) 746-7239</b>
<b>Non-Official/Draft (FAX)</b>	<b>(703) 746-7240</b>

WLS

12 November 2004



**Wilbert L. Starks, Jr.**  
**Primary Examiner**  
**Art Unit - 2121**